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The Ecology of Cultural Resources: EXPERIENCE YOUR AMERICA Issues and Impacts Related to Submerged and

Emergent Cultural Resources at Lake Mead National

Recreation Area

August 14, 2014

Dave Conlin Submerged Resources Center

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YOUR AMERICA

National Reservoir Inundation Study 1976-1980











EXPERIENCE YOUR **AMERICA**







Landing Craft

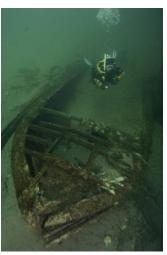
Lost City





Crane Barge





Winch Boat

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Pueblo Grande de Nevada – "Lost City" 300 BC-1150 AD



Pit House Foundation



Early Puebloan Pottery



Woven Bag- Basketmaker



Collection from Burial in Pit House

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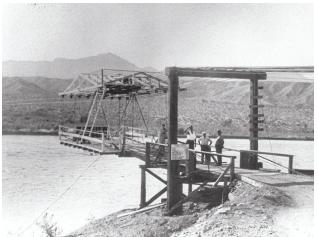
Settlement along the Colorado River 1500s-1930s



Mining Equipment along the Colorado River



Stamp Mill in Eldorado Canyon



Aerial Ferry near Cottonwood



Quartette Mining Co. Railroad

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NATIONAL PARK SERVICE

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St. Thomas- Mormon Settlement 1865-1938



Hotel in St. Thomas 1936



Mormon Canals c. 1948



St. Thomas as Lake Mead Waters Rise



St. Thomas as Lake Mead Waters Rise

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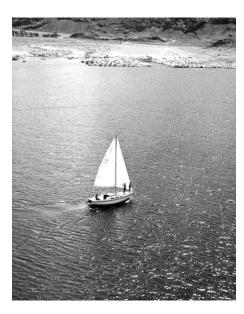


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Evolution of Use to Include Recreation 1938-1941













Railroad Used During Dam Construction



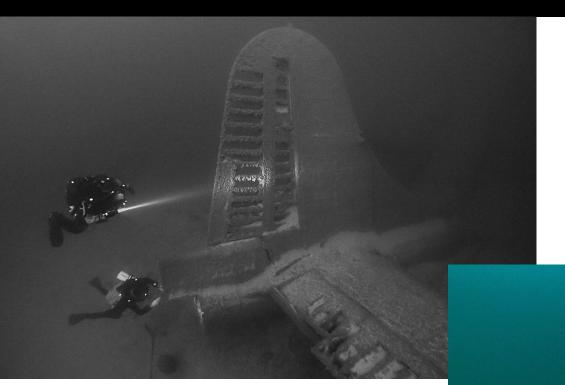
Crashed PBY Catalina Seaplane



Modern Fire Pit from Recent Visitors

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B-29 in Overton Arm

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Taking Samples

Substrates

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Quagga Mussels Carpet the Gold Dredge Machinery, Obscuring Detail



Gold Dredge Engine



Pump Outlet Pipe



Dredge Pump

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Substrate of B-29 Bomber Aluminum Alloy Exhibiting Damage from Quagga Attachment





Cyanide Processing Facility: Damage from Weight of Quaggas Pulling Apart Fragile Steel





Tank Prior to Full Collapse of Damaged Section in May 2008 (above) and After Collapse in December 2008 (below)





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B-29 Oxygen Tank- Left to Right 2007, 2009, 2014













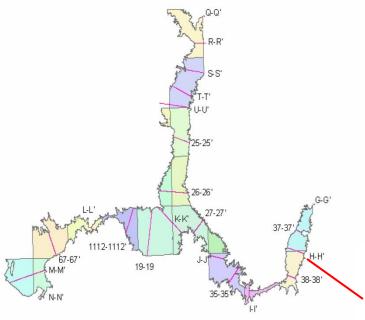


Figure 31 - Location of Lake Mead cross sections

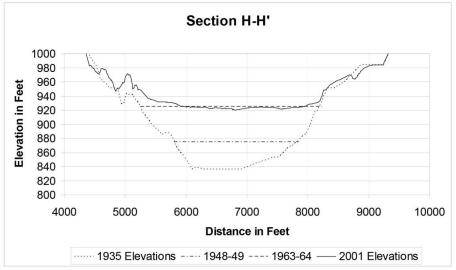


Figure 33 - Gregg Basin section H-H



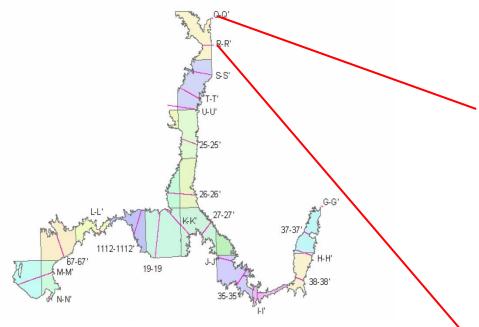


Figure 31 - Location of Lake Mead cross sections

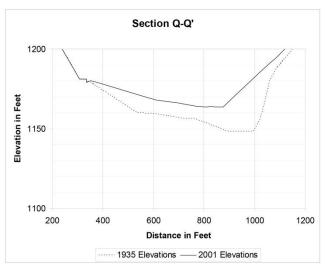


Figure 40 - Overton Arm, section Q-Q

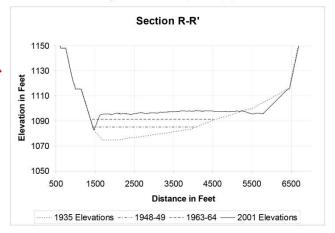


Figure 41 - Overton Arm, section R-R.

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Area-Capacity Curves for Lake Mead

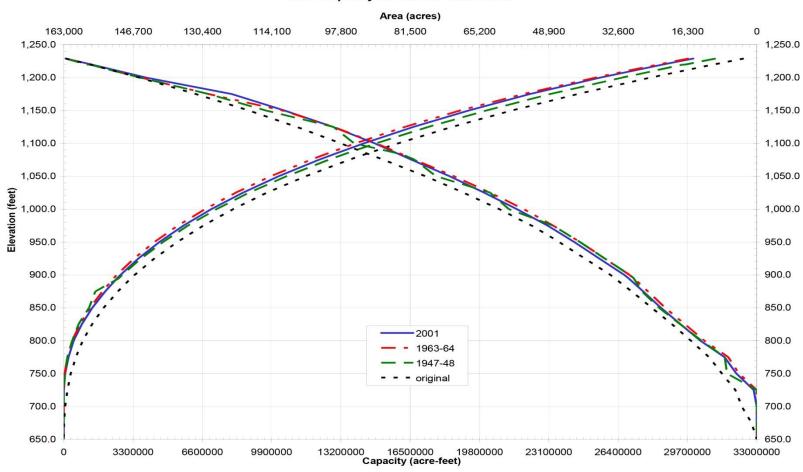


Figure 28 - Lake Mead Area and Capacity Curves.



Clarifier Tank in Use





2004 2009

The Clarifier Tank Underwater and Out of the Water Several Years Later



Chilean Mill in Lake Mohave



Deterioration of Iron Hub and Surrounding Cement



Rusting Iron Frame of Grinding Stone







Tamarisk Penetrating Walls and Foundations, Causing Cracks in Structures

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Collapsed Piping in Lost City



Cut to Edge of House 37 at Lost City Due to Erosion



Sherds, Bone and Lithic Material Accumulated in Gully, Flowing
Out of House 22 at Lost City









Cement Cracking and Foundation Separation at St. Thomas

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Destruction of Anasazi Walls from Wave Action



A Visitor Camp Fire on the Remains of the Chilean Mill

Graffiti on a Structure that Periodically Emerges from the Water

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Questions? Dave Conlin Archeologist/Chief National Park Service Submerged Resources Center Dave_Conlin@NPS.gov 303 969-2665 Thank You